

7.0 Specific Scope of Services

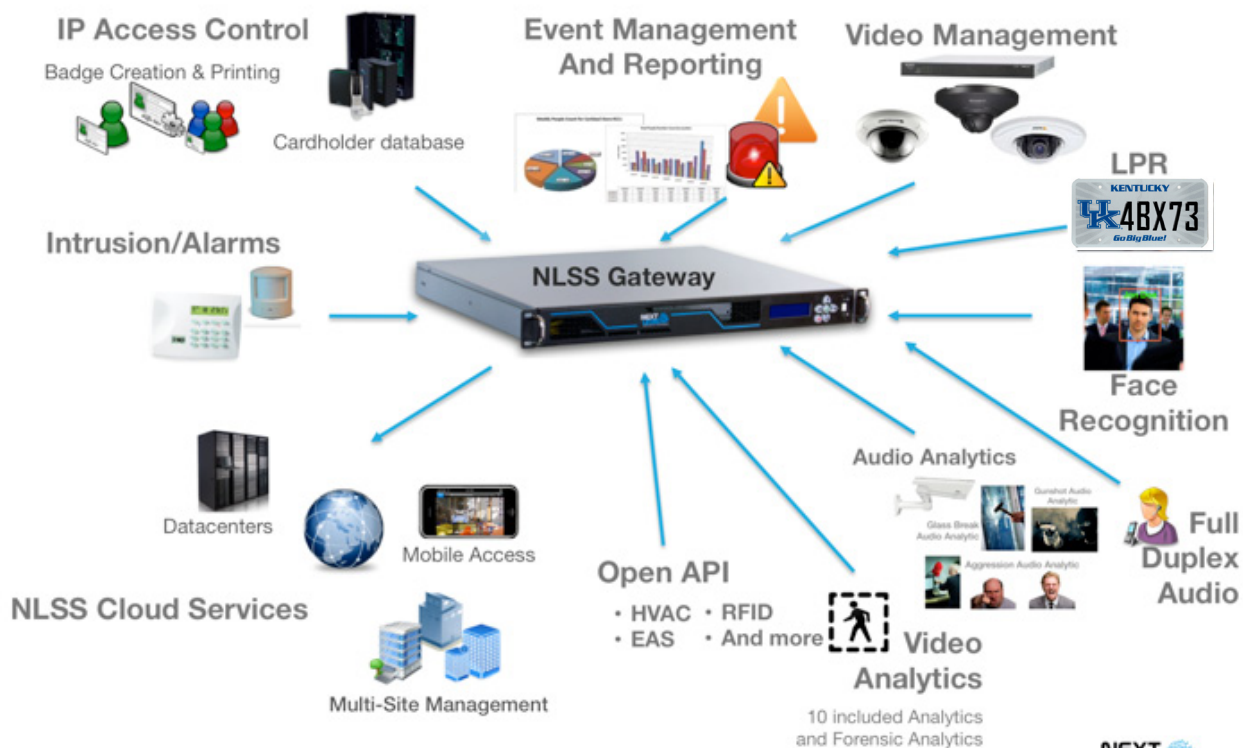
7.0.0 Basis of Design

Next Level Security Systems, Inc. is a physical security company focused on developing a new breed of networked security solutions. Next Level's products combine the performance, sophistication and functionality of enterprise-class security systems into a compact, unified and affordable solution. The award-winning NLSS Gateway is a unified solution that combines video management, access control, video analytics, intrusion and more into a single, easy-to-use Private or Public Cloud networked platform.



Open Standards: The Next Level Unified Security Platform is an open standards-based, networked system consisting of software and hardware that integrates Video Surveillance, Video Analytics and Access Control in a single platform supports existing and unified Mass Notification systems. These notifications are included in the Next Level Unified Security Platform for numerous notification options such as emails, prerecorded audio, video, SMS, live audio and integration with other notification subsystems through an open API (Application Programming Interface)

Unified Security Platform



Standalone or Cloud Option: The Next Level Unified Security Platform allows for operation in a standalone mode, and/or in conjunction with Central Management with Private or Public Cloud Servers.

Video: The Next Level Unified Security Platform supports live video, recorded video, and simultaneous display of both live and played-back recorded video.

Audio: The Next Level Unified Security Platform supports live audio and recorded audio, including but not limited to Synchronize playback of live and archived video with associated audio.

Video Display: The Next Level Unified Security Platform supports multiple desktop video displays through the use of multiple decoders or PC's with web browsers.

Video Wall: The Next Level Unified Security Platform supports video wall configurations with its HD IP Video Decoders.

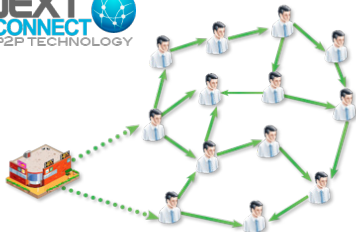


Access Control: The Next Level Unified Security Platform supports open standards for third party Access Control devices integrated into the system, examples include: Assa Abloy, HID and Mercury Security.

Event Management: The Next Level Unified Security Platform supports a variety of Event Management and Alarm Handling features integrated across the access, video and video & audio analytic feature sets.

Unlimited Live Viewing: The Next Level Unified Security Platform supports web browsers as the interface to the system and will not limit the number of users viewing live video simultaneously by utilizing P2P (Peer to Peer) networking technology.

NextConnect™ : Next Level's ground-breaking product line includes NextConnect™, the patented peer-to-peer technology powering NLSS Public or Private Cloud Services. This revolutionary technology efficiently streams live video to multiple users simultaneously from a single NLSS Gateway. Powered by NextConnect, users establish a direct connection from the remote PC to the local NLSS Gateway or with



other users on the system. This means that remote video streams faster and smoother to the user because it does not have to route through the host for each update as is the case in traditional hosting models. Additionally, this innovative method of video streaming ensures that video and bandwidth do not degrade as more users log in to view the same video. This efficient routing of video and other data reduces bandwidth, increases video streaming speed and quality, and ultimately saves on costs for the user.

Client Platform Independent: The Next Level Unified Security Platform doesn't require any specific client application software to be loaded on PCs used to access the system applications or management portals such as custom applications for specific operating systems that require individual licensing and specific operating systems & hardware.

No Recurring Licensing Fees: The Next Level Unified Security Platform does not require recurring licensing for individual cameras or system components.



Unlimited Networked Devices: The Next Level Unified Security Platform supports Security Appliances in the same network with no limitations for total number of devices.

Open Standards: The Next Level Unified Security Platform does not include any manufacturer proprietary sub system or component and uses open standards based equipment.



Centralized or Distributed Architecture: The Next Level Unified Security Platform allows for both Centralized and Distributed network architecture or a combination. System will allow “Real Time” (No more than 30 second delay) video viewing.

NextMobile :The Next Level Unified Security Platform supports use of mobile devices in the base system at no additional cost. These include but not limited to Apple / Android phones and tablets.



Data and Video Encryption: The Next Level Unified Security Platform allows secure encrypted remote access for video viewing and administration from outside the University Network, via Internet connection.

Video Transcoding: The Next Level Unified Security Platform includes video transcoding (device optimization) to aid with viewing video streams from slow network connections such as mobile devices.



Redundancy at End Point and Central Location: The Next Level Unified Security Platform is configured in this proposal to support virtual server or appliance redundancy at the end point as well as the central system location.

Retention, Backup and Auto Recovery: The Next Level Unified Security Platform supports failover of cameras from normal recording location to backup recording location when normal location is no longer available. This feature is automatic not requiring any user intervention. Cameras would also return to normal recording location when it becomes available again. The Next Level Unified Security Platform will track and follow the location of all video files for seamless user interface.

Extensive Storage Functionality: The Next Level Unified Security Platform has been proven to support major storage solutions at the NLSS Security Gateway Appliance / Virtual or Normal server devices as well as the central server control location, for example EMC storage or equal.

Virtual Servers Solutions: The Next Level Unified Security Platform supports Virtual server solutions.

Support for University's Existing Systems: The Next Level Unified Security Platform will support direct integration with the University's existing SAP database via SDKs (Software Development Kits).

The Next Level Unified Security Platform will support both SOAP (Simple Object Access Protocol) and RESTful (Representational State Transfer) Web based APIs (Application Programming Interface).

The Next Level Unified Security Platform supplied in this proposal for the integration with the University's existing Windows Active Directory, LDAP, CBORD and CCure 9000 databases.

SNMP Support: The Next Level Unified Security Platform supports SNMP on all system end points allowing for end point monitoring.

Facial and License Plate Recognition: The Next Level Unified Security Platform includes License Plate Recognition and Facial capture that are natively within its application as well as other Video & Audio Analytics.



7.0.1 Delegated-Design Submittal:

The System's Integrator shall provide this information

7.0.2 Management of Multiple Systems

Phil to provide Content - may refer to Section 4.6

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7.0.3 System Description

The system will be an open standards-based, networked platform that integrates Video Surveillance, Video Analytics and Access Control in a single platform supporting existing Mass Notification systems. (**Complies - See 7.1.x**)

1. The system will allow for operation in a standalone mode, and/or in conjunction with Central Management.(**Complies - See 7.1.x**)The system will support live video, recorded video, and simultaneous display of both live and played-back recorded video. (**Complies - See 7.1.x**)
2. The system will support live audio and recorded audio, including but not limited to Synchronized playback of live and archived video with associated audio. (**Complies - See 7.1.x**)
3. The system will support multiple desktop video displays through the use of multiple decoders or PC's with web browsers.(**Complies - See 7.1.x**)
4. The system will support video wall configurations. (**Complies - See 7.1.x**)
5. The system will support open standard third party Access Control devices integrated into the system, examples include: Assa Abloy, HID and Mercury Security.(**Complies - See 7.1.x**)
6. The system will support Event Management and Alarm Handling features integrated across the



- access, video and analytic feature sets. **(Complies - See 7.1.x)**
7. The system will support web browsers as the interface to the system and will not limit the number of users viewing live video simultaneously. **(Complies - See 7.1.x)**
 8. It is preferred that the system not require any specific client application software to be loaded on PCs used to access the system applications or management portals. **(Complies - See 7.1.x)**
 9. The system will not require recurring licensing for individual cameras or system components. **(Complies - See 7.1.x)**
 10. It is acceptable for the proposed system to offer enterprise one time license architecture, included in the base offer. **(Complies - See 7.1.x)**
 11. The system will support multiple recorders or appliances in the same network with no limitations for total number of devices. **(Complies - See 7.1.x)**
 12. The system will not include any manufacturer proprietary sub system or component and must support open standards based equipment. **(Complies - See 7.1.x)**
 13. The system will allow for Centralized and Distributed network architecture. **(Complies - See 7.1.x)**
 14. System will allow "Real Time" (No more than 30 second delay) video viewing. **(Complies - See 7.1.x)**
 15. System will support use of mobile devices in the base system at no additional cost. This would include but not limited to Apple / Android phones and tablets. **(Complies - See 7.1.x)**
 16. The system will allow for remote access for video viewing and administration from outside the University Network, via Internet connection. **(Complies - See 7.1.x)**
 17. The system will include video transcoding to aid with viewing video streams from slow network connections such as mobile devices. **(Complies - See 7.1.x)**
 18. The system will include support for server or appliance redundancy at the end point as well as the central system location. **(Complies - See 7.1.x)**
 19. The system will support failover of cameras from normal recording location to backup recording location when normal location is no longer available. This feature would be automatic not requiring any user intervention. Cameras would also return to normal recording location when it becomes available again. The system will track and follow the location of all video files for seamless user interface. **(Complies - See 7.1.x)**
 20. The system will include proven support for major storage solutions at the appliance / server devices as well as the central server control location, for example EMC storage or equal. **(Complies - See 7.1.x)**
 21. The system will include support for proven Virtual server solutions. **(Complies - See 7.1.x)**
 22. The system will support direct integration with the University's existing SAP database via SDKs (Software Development Kits). **(Complies - See 7.1.x)**
 23. The system will support both SOAP (Simple Object Access Protocol) and RESTful (Representational State Transfer) Web based APIs (Application Programming Interface). **(Complies - See 7.1.x)**
 24. The system will support integration with the University's existing Windows Active Directory, LDAP, CBORD and CCure 9000 databases. **(Complies - See 7.1.x)**
 25. The system will support SNMP on all system end points allowing for end point monitoring. **(Complies - See 7.1.x)**
 26. The system will offer support of License Plate Recognition and Facial capture and Recognition via built in applications or third party applications with system integration. **(Complies - See 7.1.x)**



7.0.4 Incorporate ID badge operations on campus

NEED INPUT FROM BILL JACOBS

a. response

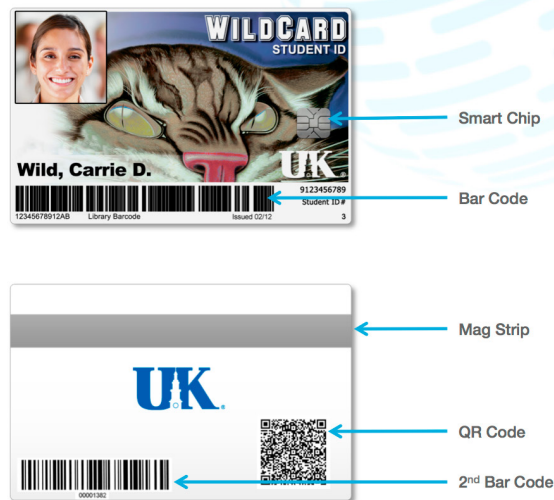
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Multi Technology Card

- ❖ Proximity Card
- ❖ QR Code
- ❖ Barcode
- ❖ Smart Chip
- ❖ Mag Strip
- ❖ Barcode for library



c. response

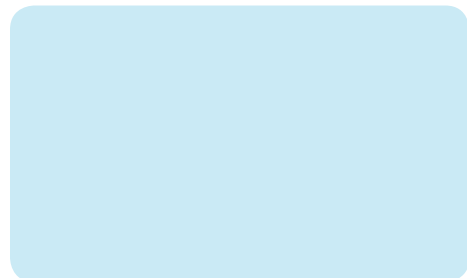
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f. response

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g. response

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7.0.5 System Management Services Features

- a. The Next Level Security System allows viewing multiple cameras from different sites in a single View.
- b. The Next Level Security System allows the display and management of multiple sites from a single log-in screen.
- c. The Next Level Security System provides a means for users to interface with their systems to:
 - Configure settings
 - Monitor live and recorded video
 - Search event data
 - Back up database
 - Create custom reports or set up automatic reports across multiple sites
 - Update software
 - Monitor system health
- d. The system includes:
 - 5. SMS/Email Notification based on event/alarm/system health
 - 6. Access on most mobile devices including Android, iPhone, iPad, Netbooks

7.0.6 System Network Security Features

- a. **Separate database** - NLSS Cloud Services segments each organization's data into an independent database. We do not mix rows of security data from various organizations in the same tables.
- b. **Multi-tenant Model** - Each organization is isolated to its own data within the NLSS multi-tenant model. Each user's access to that data is restricted to the permissions granted by the user's role.
- c. **Secure Connection** - All client web traffic is over https only; http requests are automatically forced to https. NLSS Cloud Services can accommodate many cipher suites and will negotiate the strongest possible encryption method (typically AES-256).
- d. **Three-fold User Authentication** - Authentication to NLSS's central web portal requires a User ID, a Password, and an Organization ID.



7.0.7 Quality Assurance

1. Qualifications

- a. *The System's Integrator shall provide this information*
- b. Next Level will provide an on site technical representative during the installation and approval period

2. Standards and Guidelines

- a. The Next Level GW-4000 complies with FCC Part 15 Class B and RoHS.
- b. *The System's Integrator shall provide this information*
- c. *The System's Integrator shall provide this information*
- d. *The System's Integrator shall provide this information*
- e. *The System's Integrator shall provide this information*
- f. *The System's Integrator shall provide this information*
- g. *The System's Integrator shall provide this information*
- h. The Next Level GW-4000 complies with FCC Part 15 Class B and RoHS.
- i. *The System's Integrator shall provide this information*

7.0.8 Delivery, Storage and Handling

The system's Integrator shall provide this information.

7.0.9 Project Site Conditions

The Next Level GW-4000 can operate continuously in the temperature range of +32 degrees to +122 degrees Fahrenheit with Relative Humidity of 20 to 80 percent, non-condensing.

*** Note that this does not match the RFP of -5 to +122 F, but it should not have been -5 in the first place

7.0.10 Manufacturer's Warranty

- a. *The System's Integrator shall provide this information*
- b. *The System's Integrator shall provide this information*
- c. **Manufacturer's Warranty**

The Next Level standard warranty of one year is included in Appendix A. Next Level will provide a warranty of 5 years specifically for this project. An End User License Agreement is also included in Appendix B.

7.0.11 System Startup/Owner's Instructions/Commissioning

The system's Integrator shall provide this information.

7.0.12 Zones

Maps can be uploaded to the system and Next Level Gateway Icons can be placed on top of them to provide a visual representation of the system. Hierarchical Groups can be configured in the Next Level Cloud Services to associate specific geographic areas such as Campus Zones with specific Next Level systems, cameras, doors, cardholders, etc. for targeted response and management of the system.



7.0.13 Warranty

Next Level will comply with Section a. Refer to Section 7.0.10 for Manufacturer's Warranty.

7.0.14 References

Informational

7.0.15 Definitions

Informational

7.0.16 Access Card and Credential Terminology

Informational

7.0.17 Security Industry Standards Organizations

Informational

7.0.18 Data encryption

Informational

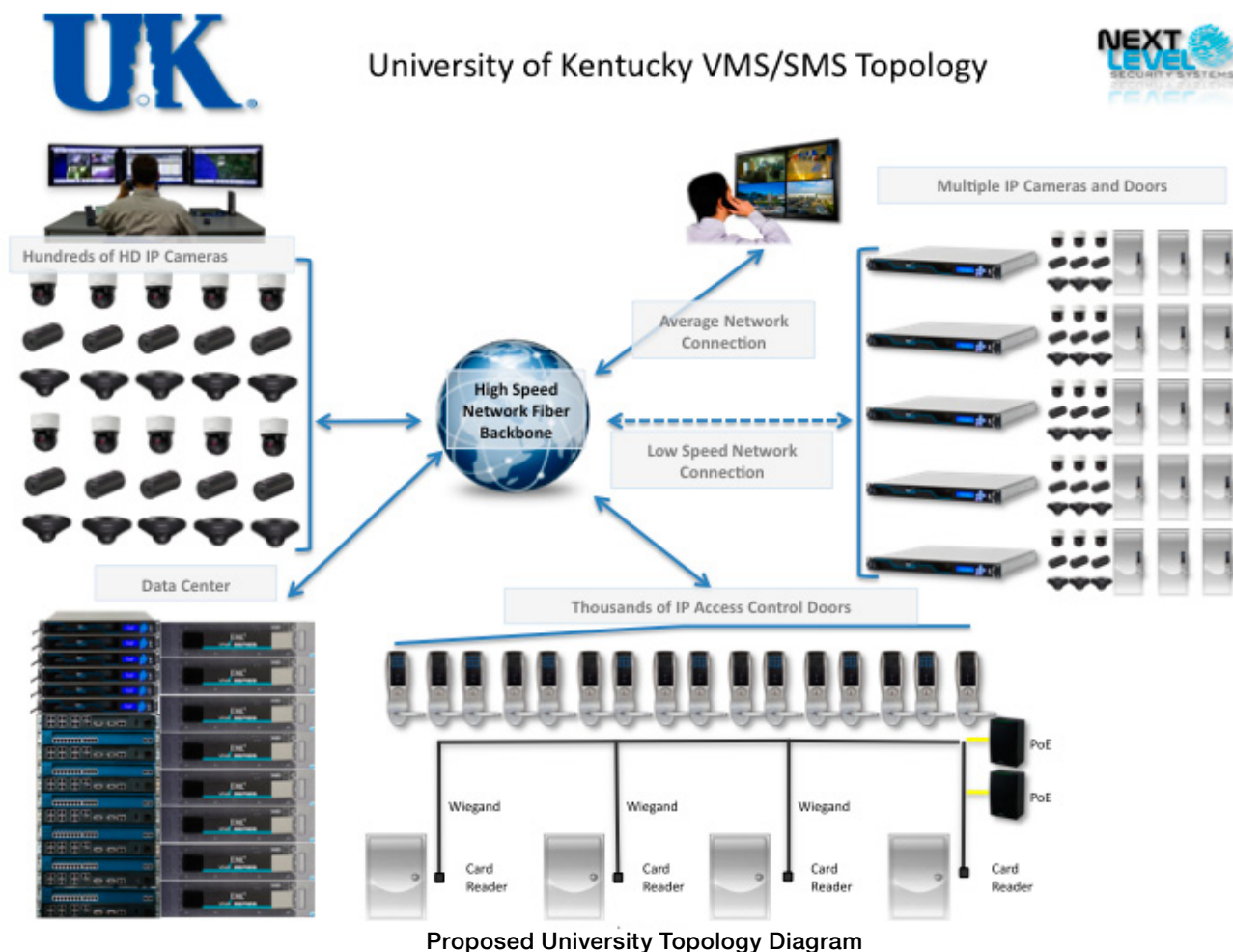


7.1 VMS / SMS

7.1.0 VMS / SMS Summary

Next Level Security Systems' solutions correlate information from traditionally separate subsystems into a single interface, giving users a comprehensive view of security operation for a complete SMS/VMS that is not available from other systems without costly, complex and time-consuming integration. The Next Level team's extensive knowledge of the IT and physical security markets makes the development of these advanced hardware and software systems a reality.

Next Level can uniquely offer a comprehensive solution for Access Control, Facial Recognition, LPR (License Plate Recognition), Network Bandwidth Management, Video Transcoding, Video & Audio Analytics, HD Video Recording & Facial Capture and many other features while utilizing the existing network infrastructure and equipment that University of Kentucky has already invested in.



The NLSS Gateway interface works in most web browser, giving users the ability to access their information from any computer, tablet or smartphone. Including Microsoft Internet Explorer version 8.0 & above, Mozilla Firefox version 11.0 & above, Google Chrome version 18.0 & above, Apple Safari 5.1.5 & above and Adobe Flash Player 11 & above.

Next Level Security offers the ability for event-based monitoring of the campus and give situation awareness through IP camera, analytics and Access Control centrally to the University of Kentucky Police Department. Next Level Security Systems is the only company with this technical capability. At the same time, this solution is offered with remarkably affordable pricing without specialized annual software licensing.

Next Level Security Systems is able to provide this value by designing its software to run on the latest computing technology from companies like Intel and NVIDIA. Using Intel's Sandy Bridge & Ivy Bridge Hardware Architecture in their newest offerings along with power NVIDIA GPU (Graphics Processor Units), Next Level Security Systems can provide super computer power in a single 1U appliance that isn't available from any other company in the security industry. Our VMware Private & Public Cloud Software for global management of NLSS Gateways completes the offering with comprehensive real time monitoring of hundreds to thousands of sites.



7.1.1 Implement a Video Management System (VMS) to monitor areas on campus:

(a) Geo-diverse VMS

Next Level Security offers the ability for event-based monitoring of the campus and give situation awareness through IP camera, analytics and Access Control centrally to the University of Kentucky Police Department.

Multi-Site Control Center

Access multiple sites from one, consolidated interface.



Next Level Security Systems Central Monitoring Center with Video Wall

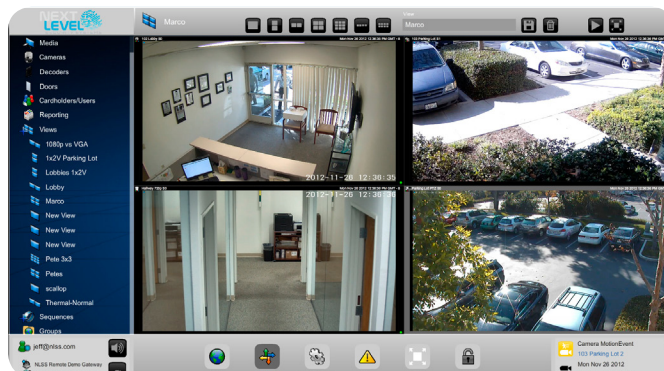


Control Center



Remote Access through a Web Browser

The Next Level Mobile Application communicates with the NLSS Gateway to remotely monitor live video from cameras. When connecting to the NLSS Gateway through NLSS Cloud Services, the mobile app also allows playback of recorded video from the NLSS Gateway and the ability to unlock doors remotely and includes support for roles, groups and permissions.



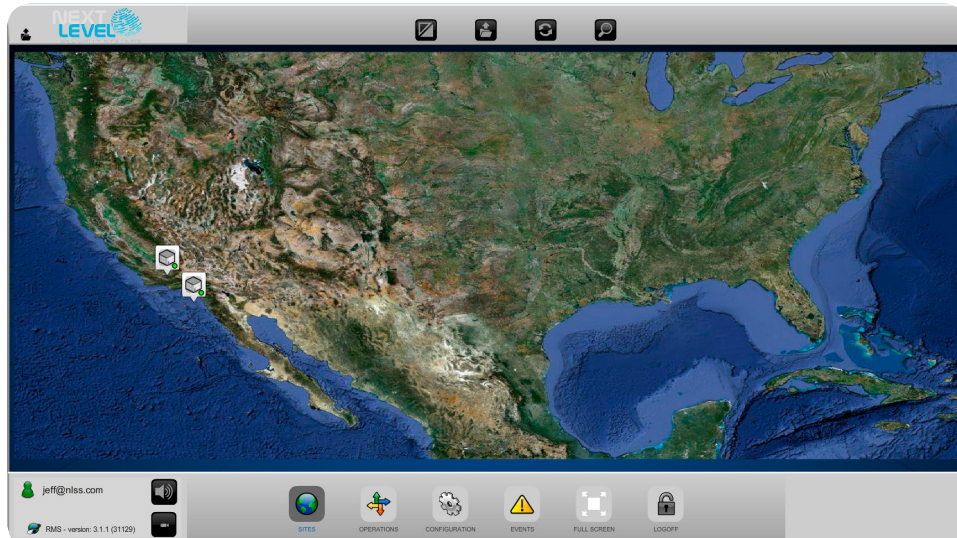
Access all system devices and features, including camera settings, live surveillance video, door controls and more.



Intuitive Map Interface

Access remote sites easily

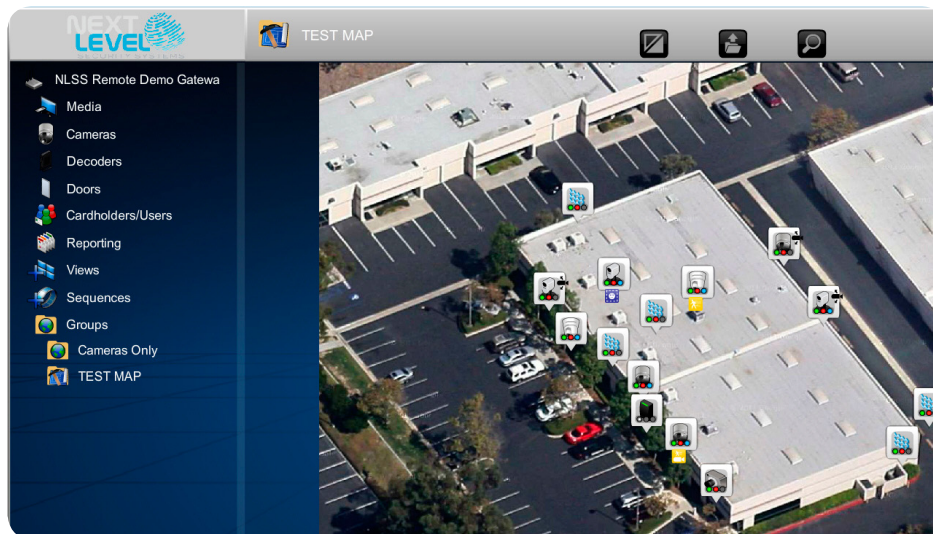
View all your sites easily on one geographic map with popups showing detail for each site. LED lights on the map interface indicate whether sites are on or offline.



Select Site on Map Interface

Drill-down Mapping

Detailed Site Map with device overlay. Once site is selected, a detailed map allows user to view site layout of cameras and doors. Icons directly on map show location of cameras, doors, gateways and decoders.



Detailed Site Map with Device Overlay

